

FIG. 1

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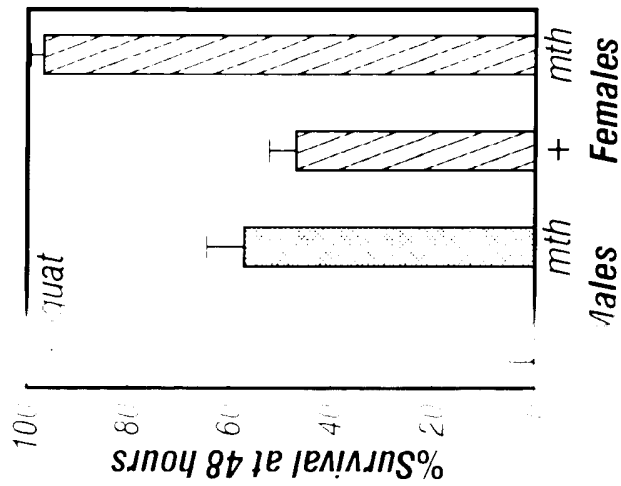


FIG. 2A

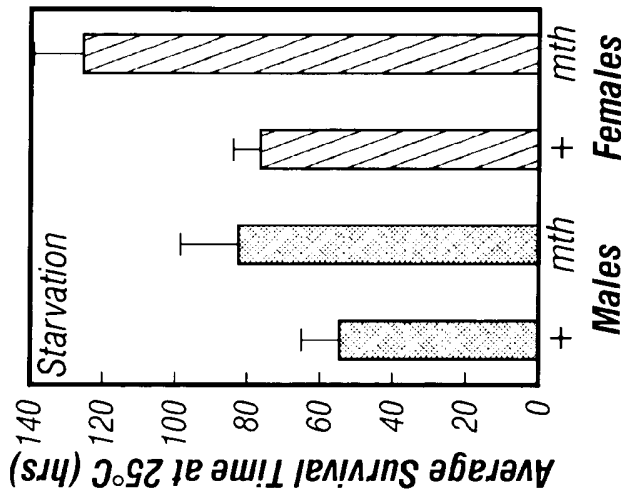


FIG. 2B

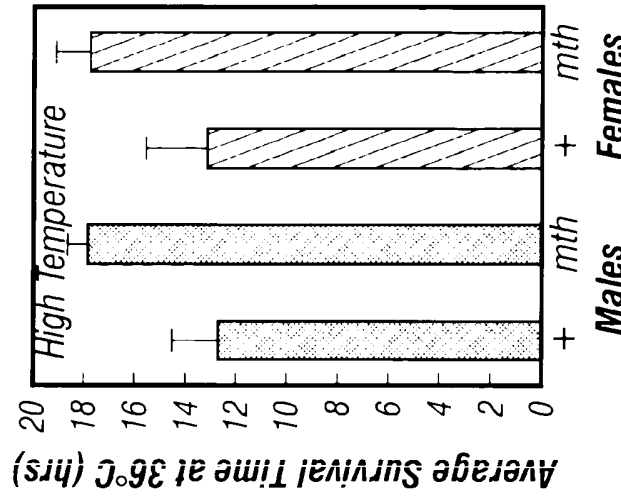


FIG. 2C

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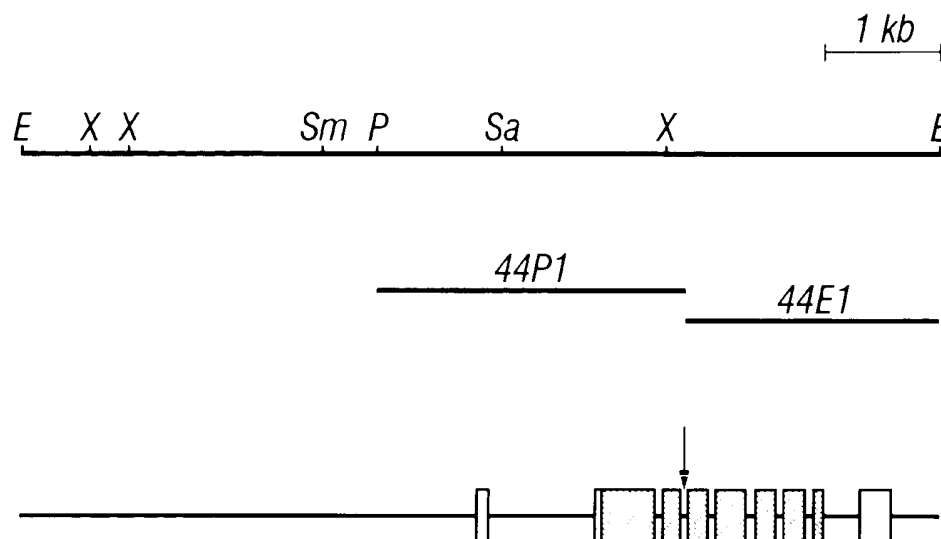
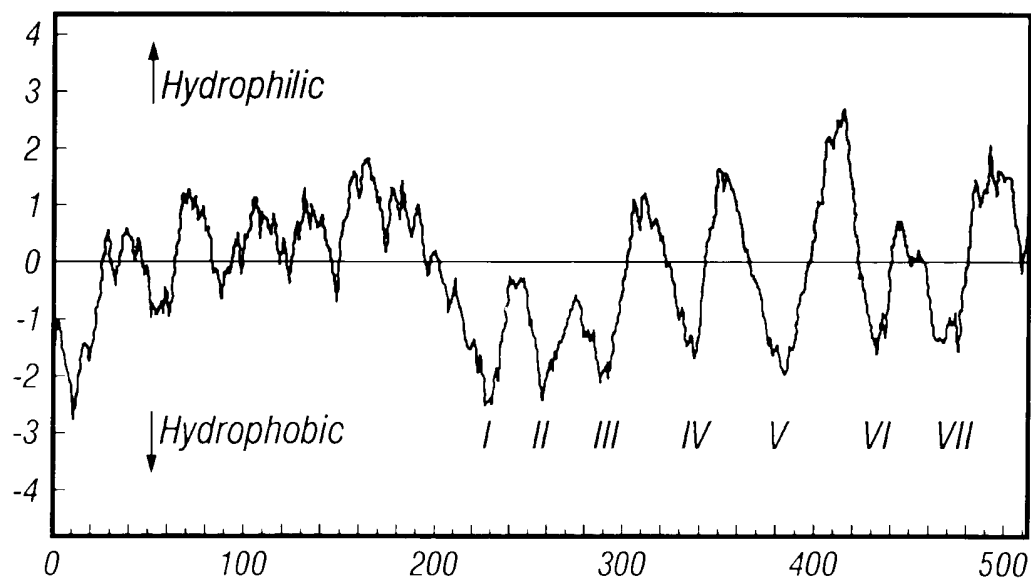


FIG. 3A



[illegible]

**FIG. 3B-1**

[illegible]

**FIG. 3B-2**

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MT: NCLIVPSITGQTVMMISSL ICMVLTIAVYLFVKKLQNLHGKCFICYMVCL 257  
 hCI SLFCLLCILLTFLLVRPIQGSRTTIHLHLCICL 497  
 rLF NELL SVIT--WVGIVISLVCLAICISTFCFLRGLQTDRTNIHKNLCINL 902  
 mEN VISLVCLALAIATFLLCRAVQNHNTYMHLLHLCVCL 690  
 SL.C. . . I . . . . Q . . . . L

MT: FMGYLFLLLDLWQISISF---CKPAGFLGYFFVMAAFFWLSVISLHLWNT 304  
 hCI FVGSTIFLAGIENEGQVGLRCRLVAGLLHYCFLAACWMSLEGLELYFL 547  
 rLF FLAELLFLVGIDKTQYEV--ACPIFAGLLHYFFLAASFWSLCLGEGVHLYLL 950  
 mEN FLAKILFLTGTGIDKTDNQT--ACAI IAGFLHYLFLACFFWMLVEAVMLFLM 738  
 F . . . L . . . C . . . . A.F W . . . . L

MT: ERGSSHKANRFLFEHR---FLAYNTYAWGMAVVLTGITVVLADNIVENQDW 351  
 hCI VVRVFQGG---GLSTR---WLC LI GYGVP LLIVGVSAIY----- 581  
 rLF LVEVFES E---YSRTK-----YYLGGYCFPALVVGIAAID----- 984  
 mEN VRNLKVVN---YFSSRNIKMLHLCAFGYGLPVLVVIISASVQ----- 777  
 . . . . .

MT: NPR-VGHEGH CWIYTQAWSAMLYFYGPMVFLIAFNITMFI LAKRILGVK 400  
 hCI -SKGYGRPRYCWLD FEQG-FWSEFLGPVTFIILCNAVIFVTTVWKLTQKF 629  
 rLF -YRSYGTEKACWLRVDNY-FIWSEFGPVSEFIVVNLVFLMVTLHKMIRSS 1032  
 mEN -PRGYGMHNR CWLNTETG-FIWSEFLGPVCMITINSVLLAWTTLWVLRQKL 825  
 . G CW. . . F GP. . . I N . . . T . .

FIG. 4A

|     |                   |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |      |     |
|-----|-------------------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|-----|------|-----|
| MT: | KDIQNEAHRQERKQKLN | SDKQ | T | Y | T | F | F | L | R | L | F | I | I | M | G | L | S | W | S | L | E | I | G | S | Y | F | S | Q | S | N | Q | 450 |   |   |   |   |   |   |   |     |      |     |
| hC: | SEIN              | ---- | P | D | M | K | K | L | K | K | A | R | A | L | T | I | A | I | A | Q | L | F | L | - | G | C | T | W | V | F | G | L   | F | I | F | D | D | R | S | 671 |      |     |
| rL: | SVLK              | ---- | P | D | S | S | R | L | D | N | I | K | S | W | A | L | G | A | I | A | L | L | F | L | - | G | L | T | W | A | F | G   | L | L | F | I | N | K | E | S   | 1074 |     |
| mE: | CSVS              | ---- | S | E | V | S | K | L | K | D | T | R | L | L | T | F | K | A | I | A | Q | I | F | I | L | - | G | C | S | W | V | L   | G | I | F | Q | I | G | P | L   | A    | 867 |
|     | .                 | .    | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | .   | . | . | . | . | . | . | S |     |      |     |

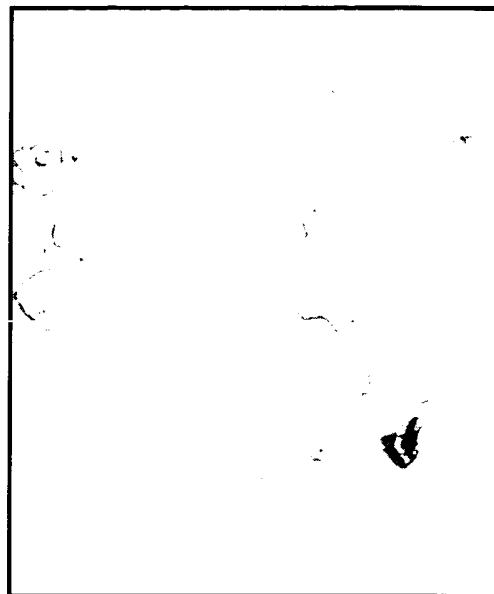
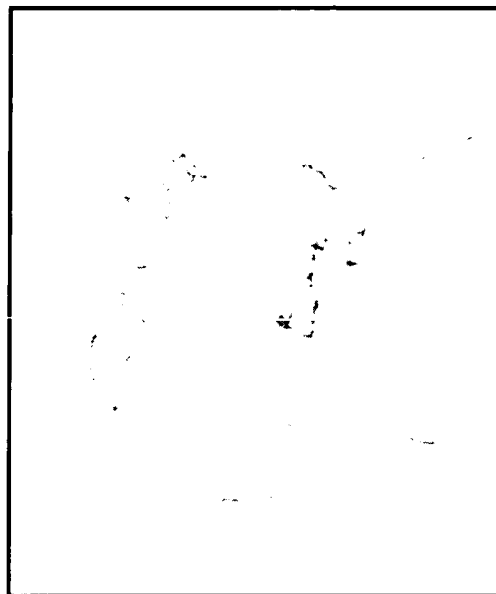
|     |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MT: | P  | W | A | N | V | L | V | A | D | Y | L | N | W | S | Q | G | I | I | I | F | I | L | F | V | L |
| hC: | -- | L | V | L | T | Y | V | F | T | I | L | N | C | L | Q | G | A | F | L | Y | L | L | H | C | L |
| rL: | -- | V | M | A | Y | L | F | T | T | F | N | A | F | Q | G | V | F | I | F | V |   |   |   |   |   |
| mE: | -- | S | I | M | A | Y | L | F | T | I | I | N | S | L | Q | G | A | F | I | F | L | I | H | C | L |
|     | .  | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |   |   |

FIG. 4B

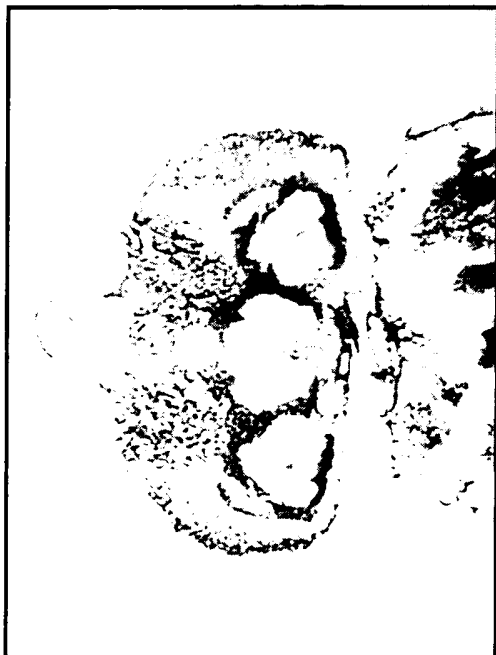
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FIG. 5

Methuselah



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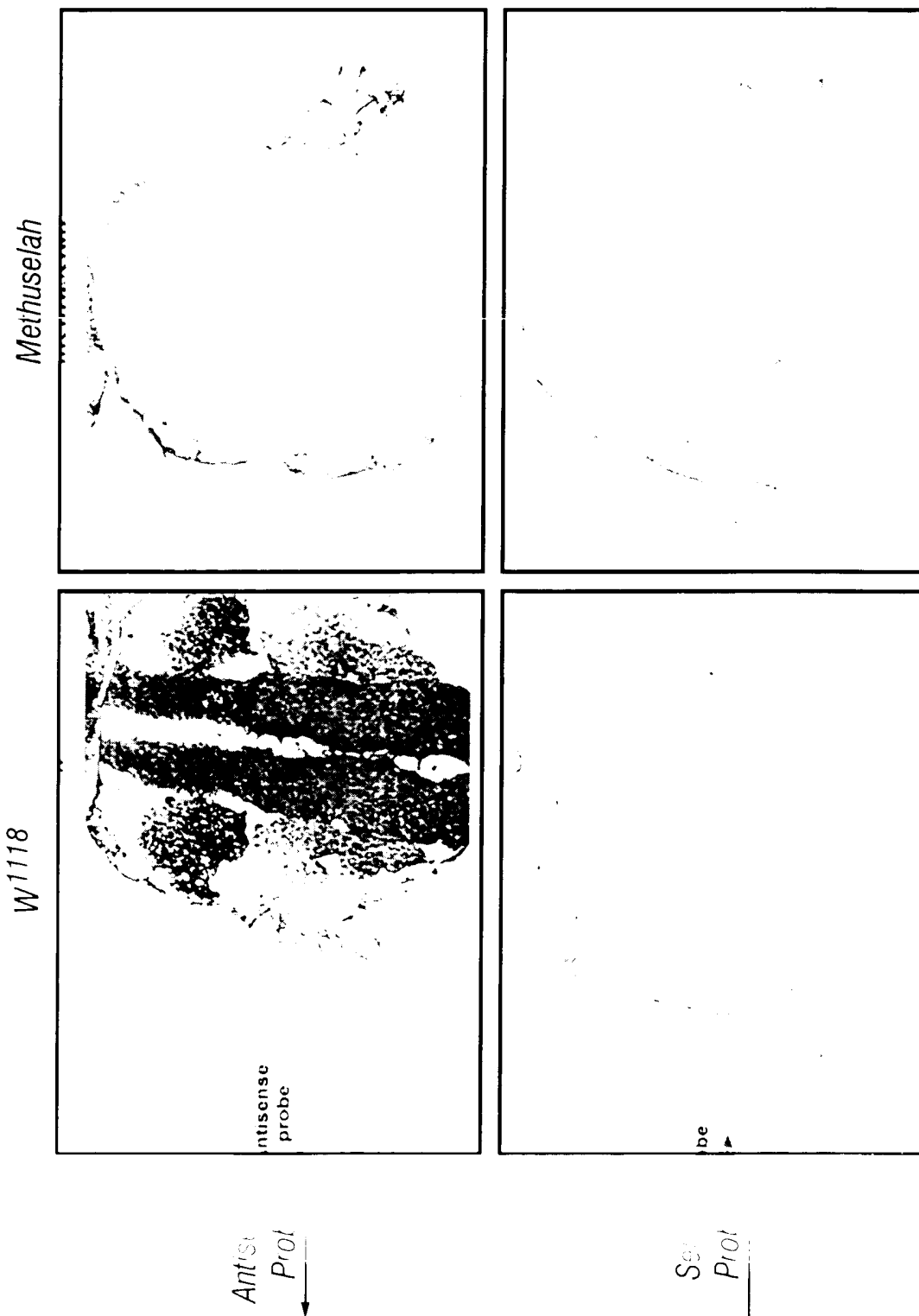
Antic  
Pit  
↓

S  
Pit  
↓

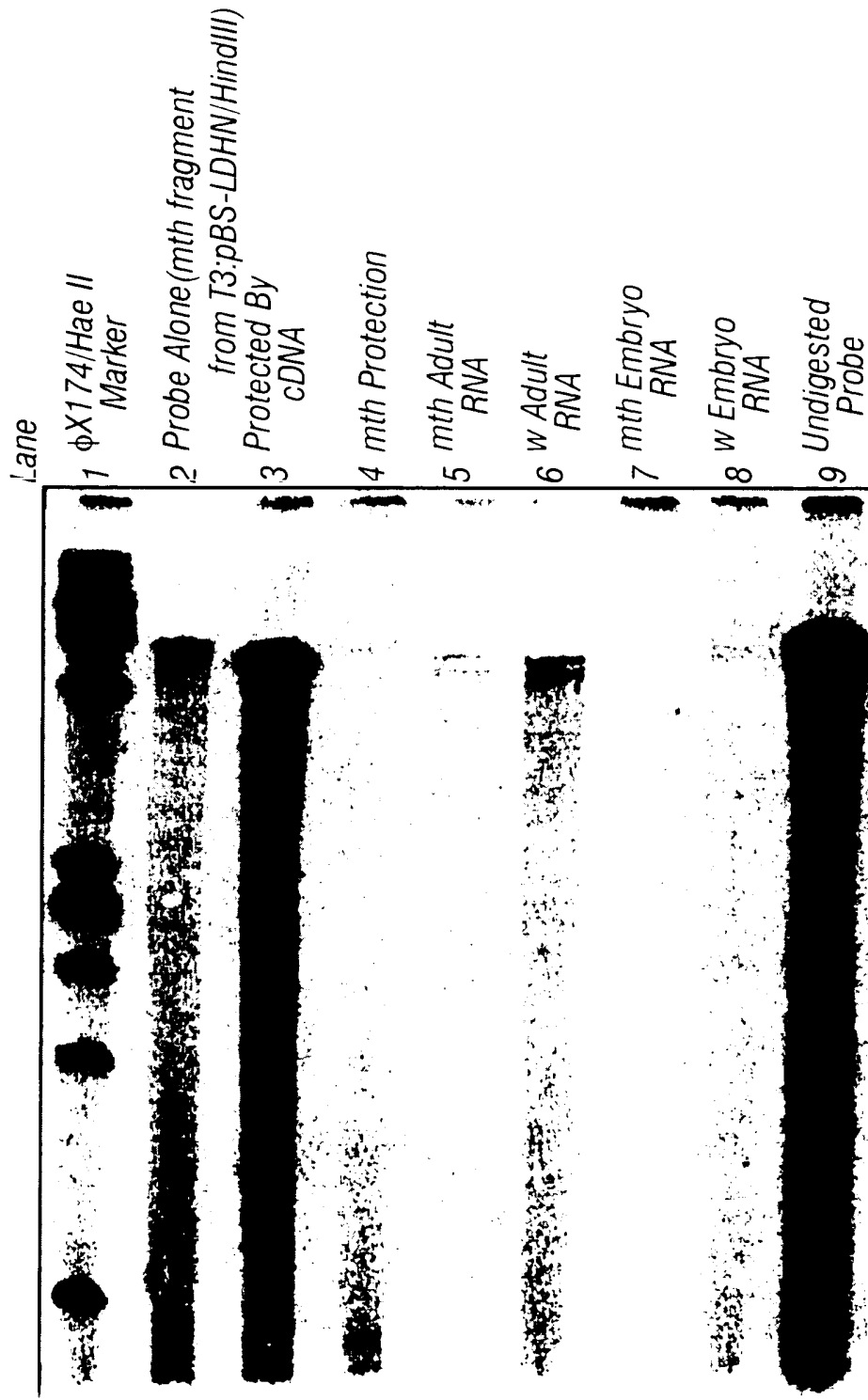


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FIG. 6



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RNase Protection Assay

FIG. 7

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*FIG. 8A*



*FIG. 8B*



*FIG. 8C*



*FIG. 8D*



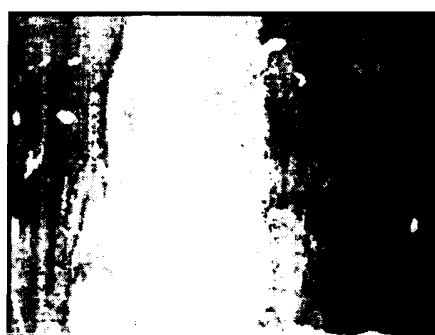
*FIG. 8E*



*FIG. 8F*



*FIG. 8G*



*FIG. 8H*